

IN THE CLAIMS

Please cancel Claims 1, 9, and 13 without prejudice or disclaimer.

Claim 1 (cancelled).

Claim 2 (currently amended): An apparatus for effecting symmetric driving of a write head as recited in Claim 4 3 wherein said first drive unit comprises at least one first current mirror structure and said second drive unit comprises at least one second current mirror structure substantially similarly with said at least one first current mirror structure, and wherein said at least one drive signal includes a direct current write current signal.

Claim 3 (currently amended): An apparatus for effecting symmetric driving of a write head; the apparatus comprising:

(a) a first drive unit coupled with a first connection locus of said write head;

(b) a second drive unit coupled with a second connection locus of said write head; and

(c) a control unit coupled with said first drive unit and said second drive unit;

said control unit effecting complementary coordination by said first and second drive units to provide at least one drive signal in substantially equal magnitudes of opposite polarities at each of said first and second connection loci during respective time intervals of operation of said write head.

~~An apparatus for effecting symmetric driving of a write head as recited in Claim 1~~ wherein said first drive unit comprises at least one first current mirror structure and said second drive unit comprises at least one second current mirror structure substantially

similarly with said at least one first current mirror structure, and wherein said at least one drive signal includes a write boost current signal.

Claim 4 (currently amended): An apparatus for effecting symmetric driving of a write head; the apparatus comprising:

(a) a first drive unit coupled with a first connection locus of said write head;

(b) a second drive unit coupled with a second connection locus of said write head; and

(c) a control unit coupled with said first drive unit and said second drive unit;

said control unit effecting complementary coordination by said first and second drive units to provide at least one drive signal in substantially equal magnitudes of opposite polarities at each of said first and second connection loci during respective time intervals of operation of said write head.

wherein said first drive unit comprises at least one first current mirror structure and said second drive unit comprises at least one second current mirror structure substantially similarly with said at least one first current mirror structure, and wherein said at least one drive signal includes a direct current write current signal, and

~~An apparatus for effecting symmetric driving of a write head as recited in Claim 2~~
wherein said at least one drive signal includes a write boost current signal.

Claim 5 (currently amended): An apparatus for effecting symmetric driving of a write head as recited in Claim 4 3 wherein said respective time intervals of operation are intervals of a digital data signal.

Claim 6 (original): An apparatus for effecting symmetric driving of a write head as recited in Claim 2 wherein said respective time intervals of operation are intervals of a digital data signal.

Claim 7 (original): An apparatus for effecting symmetric driving of a write head as recited in Claim 3 wherein said respective time intervals of operation are intervals of a digital data signal.

Claim 8 (original): An apparatus for effecting symmetric driving of a write head as recited in Claim 4 wherein said respective time intervals of operation are intervals of a digital data signal.

Claim 9 (cancelled).

Claim 10 (currently amended): An apparatus for driving a write head in response to at least one data signal as recited in Claim 9 11 wherein said each of said first drive unit and said second drive unit are substantially similar in construction and comprise: a first logic level current mirror and a second logic level current mirror; each of said first and second logic level current mirror being coupled to receive a logic level write drive component signal and responding to said control signals to present a representative logic level write drive signal related to said logic level write drive component signal to said write head in one of said first signal polarity or said second signal polarity.

Claim 11 (currently amended): An apparatus for driving a write head in response to at least one data signal; the apparatus comprising:

(a) a first drive unit coupled with said write head;

(b) a second drive unit coupled with said write head; and

(c) a control unit coupled with said first drive unit and said second drive unit;

said control unit receiving said at least one data signal and generating control signals to said first drive unit and said second drive unit in response to said at least one data signal; said control signals controlling said first drive unit to apply at least one first drive signal to a first write head connection locus of said write head in a first signal polarity and controlling said second drive unit to apply at least one second drive signal to a second write head connection locus of said write head in a second signal polarity opposite to said first signal polarity when said at least one data signal effects a signal excursion; said at least one first drive signal and said at least one second drive signal being substantially equal in magnitude; said at least one first drive signal and said at least one second drive signal being applied substantially simultaneously,

~~An apparatus for driving a write head in response to at least one data signal as recited in Claim 9~~ wherein each of said first drive unit and said second drive unit are substantially similar in construction and comprise: a first boost current mirror and a second boost current mirror; each of said first and second boost current mirror being coupled to receive a boost current write drive component signal; each respective boost current mirror of said first and second boost current mirror responding to said control signals to present said boost current write drive component signal to said write head in the same signal polarity of said first signal polarity or said second signal polarity as said representative direct current write drive signal presented by said respective current mirror.

Claim 12 (currently amended): An apparatus for driving a write head in response to at least one data signal; the apparatus comprising:

(a) a first drive unit coupled with said write head;

(b) a second drive unit coupled with said write head; and

(c) a control unit coupled with said first drive unit and said second drive unit;

said control unit receiving said at least one data signal and generating control signals to said first drive unit and said second drive unit in response to said at least one data signal; said control signals controlling said first drive unit to apply at least one first drive signal to a first write head connection locus of said write head in a first signal polarity and controlling said second drive unit to apply at least one second drive signal to a second write head connection locus of said write head in a second signal polarity opposite to said first signal polarity when said at least one data signal effects a signal excursion; said at least one first drive signal and said at least one second drive signal being substantially equal in magnitude; said at least one first drive signal and said at least one second drive signal being applied substantially simultaneously,

wherein said each of said first drive unit and said second drive unit are substantially similar in construction and comprise: a first logic level current mirror and a second logic level current mirror; each of said first and second logic level current mirror being coupled to receive a logic level write drive component signal and responding to said control signals to present a representative logic level write drive signal related to said logic level write drive component signal to said write head in one of said first signal polarity or said second signal polarity, and

~~An apparatus for driving a write head in response to at least one data signal as recited in Claim 10 wherein each of said first drive unit and said second drive unit are~~ substantially similar in construction and comprise: a first boost current mirror and a and second boost current mirror; each of said first and second boost current mirror being coupled to receive a boost current write drive component signal; each respective boost current mirror of said first and second boost current mirror responding to said control

signals to present said boost current write drive component signal to said write head in the same signal polarity of said first signal polarity or said second signal polarity as said representative direct current write drive signal presented by said respective current mirror.

Claim 13 (cancelled).

Claim 14 (currently amended): A method for driving a write head in response to at least one data signal as recited in Claim 43 15 wherein each of said first drive unit and said second drive unit are substantially similar in construction and comprise: a first logic level current mirror and a second logic level current mirror; each of said first and second logic level current mirror being coupled to receive a logic level write drive component signal and responding to said control signals to present a representative logic level write drive signal related to said logic level write drive component signal to said write head in one of said first signal polarity or said second signal polarity.

Claim 15 (currently amended): A method for driving a write head in response to at least one data signal; the method comprising the steps of:

(a) in no particular order:

(1) providing a first drive unit coupled with said write head;

(2) providing a second drive unit coupled with said write head; and

(3) providing a control unit coupled with said first drive unit and said second drive unit; and

(b) operating said control unit to receive said at least one data signal and generate control signals to said first drive unit and said second drive unit in response to said at least one data signal; said control signals controlling said first drive unit to apply at least one first drive signal to a first write head connection locus of said write head in a first signal polarity and controlling said second drive unit to apply at least one second drive signal to a second write head connection locus of said write head in a second signal polarity opposite to said first signal polarity when said at least one data signal effects a signal excursion; said at least one first drive signal and said at least one second drive signal being substantially equal in magnitude; said at least one first drive signal and said at least one second drive signal being applied substantially simultaneously.

~~A method for driving a write head in response to at least one data signal as recited in Claim 13~~ wherein each of said first drive unit and said second drive unit are substantially similar in construction and comprise: a first boost current mirror and a second boost current mirror; each of said first and second boost current mirror being coupled to receive a boost current write drive component signal; each respective boost current mirror of said first and second boost current mirror responding to said control signals to present said boost current write drive component signal to said write head in the same signal polarity of said first signal polarity or said second signal polarity as said representative direct current write drive signal presented by said respective current mirror.

Claim 16 (currently amended): A method for driving a write head in response to at least one data signal; the method comprising the steps of:

(a) in no particular order:

(1) providing a first drive unit coupled with said write head;

(2) providing a second drive unit coupled with said write head; and

(3) providing a control unit coupled with said first drive unit and said second drive unit; and

(b) operating said control unit to receive said at least one data signal and generate control signals to said first drive unit and said second drive unit in response to said at least one data signal; said control signals controlling said first drive unit to apply at least one first drive signal to a first write head connection locus of said write head in a first signal polarity and controlling said second drive unit to apply at least one second drive signal to a second write head connection locus of said write head in a second signal polarity opposite to said first signal polarity when said at least one data signal effects a signal excursion; said at least one first drive signal and said at least one second drive signal being substantially equal in magnitude; said at least one first drive signal and said at least one second drive signal being applied substantially simultaneously,

wherein each of said first drive unit and said second drive unit are substantially similar in construction and comprise: a first logic level current mirror and a second logic level current mirror; each of said first and second logic level current mirror being coupled to receive a logic level write drive component signal and responding to said control signals to present a representative logic level write drive signal related to said logic level write drive component signal to said write head in one of said first signal polarity or said second signal polarity, and

~~A method for driving a write head in response to at least one data signal as recited in Claim 14 wherein each of said first drive unit and said second drive unit are substantially similar in construction and comprise: a first boost current mirror and a~~ and

second boost current mirror; each of said first and second boost current mirror being coupled to receive a boost current write drive component signal; each respective boost current mirror of said first and second boost current mirror responding to said control signals to present said boost current write drive component signal to said write head in the same signal polarity of said first signal polarity or said second signal polarity as said representative direct current write drive signal presented by said respective current mirror.